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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/689,339	10/20/2003	Daniel Eduardo Groszmann	134074NV (15084US01)	134074NV (15084US01) 2897	
23446 7590 10/31/2007 MCANDREWS HELD & MALLOY, LTD 500 WEST MADISON STREET			EXAMINER		
			TANINGCO, ALEXANDER H		
SUITE 3400 CHICAGO, IL 60661			ART UNIT	PAPER NUMBER	
		•	2882		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)		
	10/689,339	GROSZMANN, DANIEL EDUARDO		
Office Action Summary	Examiner	Art Unit		
	Alexander H. Taningco	2882		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE STATE OF THE MAILING DOWN THE STATE OF THE MAILING DOWN THE STATE OF THE MAILING DOWN THE MAILING THE MAILI	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tinuity will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>01 A</u> This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on 20 October 2003 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	: a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal D 6) Other:	Date		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10, 12-16, 19, and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe (US 6,325,537).

With regards to claims 1, 9, and 15, Watanabe disclose a method for image reconstruction for images acquired in a non-isocentric path (Fig. 9), said method comprising: varying a distance between an object and at least one of a detector and a source to form a virtual isocenter (Col. 3 Lines 55-64; Col. 4 Lines 31-37); maintaining an object at said virtual isocenter during imaging of said object (Col. 3 Lines 17-18); normalizing a magnification change in image data obtained as said virtual isocenter is maintained (Col. 3 Lines 63-64); and reconstructing an image of said object based on said image data and said normalized magnification change (Col. 4 Lines 7-8; Col. 4 Lines 46-48).

With regards to claims 2 and 10, Watanabe disclose a method further comprising tracking a position of said detector and a position of said object (Col. 3 Lines 29-31).

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With regards to claim 3, Watanabe disclose a method wherein said varying step further comprises varying said distance between image exposures (Col. 9 Lines 7-20).

With regards to claims 4 and 12, Watanabe disclose a method further comprising determining a distance between said detector and a source (Col. 3 Lines 55-59).

With regards to claims 5, 13, and 16, Watanabe disclose a method further comprising determining a position of at least one of said detector and a source with respect to said object (Col. 3 Lines 25-27).

With regards to claims 6 and 19, Watanabe disclose a method further comprising mounting said detector 16 and a source 12 on a C-arm 14 (Fig. 2).

With regards to claims 7 and 14, Watanabe disclose a method further comprising moving said C-arm in a non-circular path to move said detector and said source around said object while varying said distance between said detector and said object (Col. 3 Lines 29-31; Col. 6 Lines 24-26).

With regards to claim 8, Watanabe disclose a method wherein said reconstructing step further comprises reconstructing a three-dimensional image of said object based on said image data and said normalized magnification change (Col. 1 Lines 63-64).

With regards to claim 20, Watanabe disclose a system further comprising a positioning device for positioning said object with respect to said support (Col. 3 Lines 60-64).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watanabe (US 6,325,537) as applied to claim 10 above, and further in view of Habraken et al. (US 2001/0031039).

With regards to claims 11, 17, and 18, Watanabe disclose a method as recited above in claim 10. Watanabe fail to teach a method wherein said tracking system comprises an electromagnetic tracking system for determining a position of said detector with respect to said object. Habraken et al. teach a method wherein said tracking system comprises an electromagnetic tracking system for determining a position of said detector with respect to said object (Abs.). It would have been obvious to one of ordinary skill in the art, at the time of invention to modify the invention of Watanabe to include a method wherein said tracking system comprises an electromagnetic tracking system for determining a position of said detector with respect to said object, in order to prevent collisions between movable parts (Abs. Lines 2-3; Fig. 1 note: 16 and 18).

Response to Arguments

Applicant's arguments with respect to claims 1, 9, and 15 have been considered but are most in view of the new ground(s) of rejection.

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New reference Watanabe (US 6,325,537) discloses the above recited limitations.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patent(s) are cited to further show:

Hsieh (US 6,295,331)

(378/4)

- Smoothing to the data as a distance from an isochannel increases
- Weighting factor where the distance from a point in the image to the x-ray source
- Magnification factor is defined as a ratio of a distance from source to detector, over a distance of source to isocenter

Lewis, Jr. et al. (US 6,816,625)

(382/275)

Correct or change magnification differences

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander H. Taningco whose telephone number is (571) 272-8048. The examiner can normally be reached on Mon-Fri 8:00-4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alexander Taningco Patent Examiner Art Unit 2882

571.272.8048

Courtney Thomas Primary Examiner

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